

2128 #2



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/025,730

DATE: 03/12/2002

TIME: 10:49:40

Input Set : N:\Crf3\RULE60\10025730.raw
 Output Set: N:\CRF3\03122002\J025730.raw

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1 <110> APPLICANT: Tang, Y. Tom
2   Guegler, Karl J.
3   Corley, Neil C.
4   Gorgone, Gina A.
5 <120> TITLE OF INVENTION: CALCIUM BINDING PROTEIN
6 <130> FILE REFERENCE: PF-0635 US
7 <140> CURRENT APPLICATION NUMBER: 10/025,730
8 <141> CURRENT FILING DATE: 2001-12-18
10 <150> PRIOR APPLICATION NUMBER: US/09/190,965
11 <151> PRIOR FILING DATE: 1998-11-13
13 <160> NUMBER OF SEQ ID NOS: 5
14 <170> SOFTWARE: PERL Program
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 337
18 <212> TYPE: PRT
19 <213> ORGANISM: Homo sapiens
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21 <223> OTHER INFORMATION: 3734805
22 <400> SEQUENCE: 1
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25 Glu Ile Val Lys Ile Leu Lys Asp Asn Leu Ala Ile Leu Glu Lys
26      20         25         30
27 Gln Asp Lys Lys Thr Asp Lys Ala Ser Glu Glu Val Ser Lys Ser
28      35         40         45
29 Leu Gln Ala Met Lys Glu Ile Leu Cys Gly Thr Asn Glu Lys Glu
30      50         55         60
31 Pro Pro Thr Glu Ala Val Ala Gln Leu Ala Gln Glu Leu Tyr Ser
32      65         70         75
33 Ser Gly Leu Leu Val Thr Leu Ile Ala Asp Leu Gln Leu Ile Asp
34      80         85         90
35 Phe Glu Gly Lys Lys Asp Val Thr Gln Ile Phe Asn Asn Ile Leu
36      95        100        105
37 Arg Arg Gln Ile Gly Thr Arg Ser Pro Thr Val Glu Tyr Ile Ser
38      110        115        120
39 Ala His Pro His Ile Leu Phe Met Leu Leu Lys Gly Tyr Glu Ala
40      125        130        135
41 Pro Gln Ile Ala Leu Arg Cys Gly Ile Met Leu Arg Glu Cys Ile
42      140        145        150
43 Arg His Glu Pro Leu Ala Lys Ile Ile Leu Phe Ser Asn Gln Phe
44      155        160        165
45 Arg Asp Phe Phe Lys Tyr Val Glu Leu Ser Thr Phe Asp Ile Ala
46      170        175        180

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ENTERED

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47 Ser Asp Ala Phe Ala Thr Phe Lys Asp Leu Leu Thr Arg His Lys
48 185 190 195
49 Val Leu Val Ala Asp Phe Leu Glu Gln Asn Tyr Asp Thr Ile Phe
50 200 205 210
51 Glu Asp Tyr Glu Lys Leu Leu Gln Ser Glu Asn Tyr Val Thr Lys
52 215 220 225
53 Arg Gln Ser Leu Lys Leu Leu Gly Glu Leu Ile Leu Asp Arg His
54 230 235 240
55 Asn Phe Ala Ile Met Thr Lys Tyr Ile Ser Lys Pro Glu Asn Leu
56 245 250 255
57 Lys Leu Met Met Asn Leu Leu Arg Asp Lys Ser Pro Asn Ile Gln
58 260 265 270
59 Phe Glu Ala Phe His Val Phe Lys Val Phe Val Ala Ser Pro His
60 275 280 285
61 Lys Thr Gln Pro Ile Val Glu Ile Leu Leu Lys Asn Gln Pro Lys
62 290 295 300
63 Leu Ile Glu Phe Leu Ser Ser Phe Gln Lys Glu Arg Thr Asp Asp
64 305 310 315
65 Glu Gln Phe Ala Asp Glu Lys Asn Tyr Leu Ile Lys Gln Ile Arg
66 320 325 330
67 Asp Leu Lys Lys Thr Ala Pro
68 335

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70 <210> SEQ ID NO: 2

71 <211> LENGTH: 1344

72 <212> TYPE: DNA

73 <213> ORGANISM: Homo sapiens

W--> 74 <220> FEATURE: -

75 <223> OTHER INFORMATION: 3734805

76 <400> SEQUENCE: 2

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78 gcaaagagag tggaaattta cagctgcctt atcattccat attggaagaa gagatttcta 120
79 cacatgaaaa aaatgccttt gtttagtaaa tcacacaaaa atccagcaga aattgtgaaa 180
80 atcctgaaag acaatttggc cattttggaa aagcaagaca aaaagacaga caaggcttca 240
81 gaagaagtgt ctaaatcaact gcaagcaatg aaagaattc ttgtgtgtac aaacgagaaa 300
82 gaacccccga cagaaggcagt ggctcagcta gcacaagaac tctacagcag tggcctgctg 360
83 gtgacactga tagctgacct gcagctgata gactttgagg gaaaaaaaaa tgtgaccagg 420
84 atatttaaca acatcttgag aagacagata ggcactcgga gtcctactgt ggagtatatt 480
85 agtgctcatc ctcatatcct gtttatgctc ctcaaaggat atgaagcccc acagattgcc 540
86 ttacgttgtg ggattatgtc gagagaatgt attcgacatg aaccacttgc caaaatcatc 600
87 ctctttcta atcaattcag agatttcttt aagtactgtt agttgtcaac atttgatatt 660
88 gcttcagatg cctttgtac tttcaaggat ttactaacca gacataaagt gttggtagca 720
89 gacttccttag aacaaaatta cgacactatt tttgaagact atgagaaaatt gcttcagtct 780
90 gagaattatg ttactaaagag acagtctta aagctgctag gggagctgat cctggaccgt 840
91 cacaactttg ccatcatgac aaagtatatac agcaagccgg agaacctgaa actcatgatg 900
92 aacctcccttc gggataaaaag tcccaacatc cagtttgaag cctttcatgt ttttaagggt 960
93 tttgtggcca gtcctcacaa aacacagcct attgtggaga tcctgttaaa aaatcagccc 1020
94 aaactcattg agtttctgag cagttccaa aaagaaagga cggatgatga gcagttcgct 1080
95 gacgagaaga actacttgat taaacagatc cgagacttga agaaaaacggc cccttgaaga 1140
96 gctccccggc ccctgtcaca gtcagtcgtc tcatttgcgtc agtttgtaca gtgtgtcatt 1200

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Input Set : N:\Crf3\RULE60\10025730.raw
Output Set: N:\CRF3\03122002\J025730.raw

97 tcagaaagtc atcattcttg ggaagacttt ggaggtgcct atttttctg ctgtaattgt 1260
 98 tctgggtaga tggagtataa acatgtaat ggaaaaaaaaat taacctagaa taatatattc 1320
 99 attttagtca aaaaaaaaaaaa aaaa 1344
 101 <210> SEQ ID NO: 3
 102 <211> LENGTH: 341
 103 <212> TYPE: PRT
 104 <213> ORGANISM: Mus sp.
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 106 <223> OTHER INFORMATION: g262934
 107 <400> SEQUENCE: 3
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 110 Val Lys Asn Leu Lys Glu Ser Met Ala Val Leu Glu Lys Gln Asp
 111 20 25 30
 112 Ile Ser Asp Lys Lys Ala Glu Lys Ala Thr Glu Glu Val Ser Lys
 113 35 40 45
 114 Asn Leu Val Ala Met Lys Glu Ile Leu Tyr Gly Thr Asn Glu Lys
 115 50 55 60
 116 Glu Pro Gln Thr Glu Ala Val Ala Gln Leu Ala Gln Glu Leu Tyr
 117 65 70 75
 118 Asn Ser Gly Leu Leu Gly Thr Leu Val Ala Asp Leu Gln Leu Ile
 119 80 85 90
 120 Asp Phe Glu Gly Lys Lys Asp Val Ala Gln Ile Phe Asn Asn Ile
 121 95 100 105
 122 Leu Arg Arg Gln Ile Gly Thr Arg Thr Pro Thr Val Glu Tyr Ile
 123 110 115 120
 124 Cys Thr Gln Gln Asn Ile Leu Phe Met Leu Leu Lys Gly Tyr Glu
 125 125 130 135
 126 Ser Pro Glu Ile Ala Leu Asn Cys Gly Ile Met Leu Arg Glu Cys
 127 140 145 150
 128 Ile Arg His Glu Pro Leu Ala Lys Ile Ile Leu Trp Ser Glu Gln
 129 155 160 165
 130 Phe Tyr Asp Phe Phe Arg Tyr Val Glu Met Ser Thr Phe Asp Ile
 131 170 175 180
 132 Ala Ser Asp Ala Phe Ala Thr Phe Lys Asp Leu Leu Thr Arg His
 133 185 190 195
 134 Lys Leu Leu Ser Ala Glu Phe Leu Glu Gln His Tyr Asp Arg Phe
 135 200 205 210
 136 Phe Ser Glu Tyr Glu Lys Leu Leu His Ser Glu Asn Tyr Val Thr
 137 215 220 225
 138 Lys Arg Gln Ser Leu Lys Leu Leu Gly Glu Leu Leu Leu Asp Arg
 139 230 235 240
 140 His Asn Phe Thr Ile Met Thr Lys Tyr Ile Ser Lys Pro Glu Asn
 141 245 250 255
 142 Leu Lys Leu Met Met Asn Leu Leu Arg Asp Lys Ser Arg Asn Ile
 143 260 265 270
 144 Gln Phe Glu Ala Phe His Val Phe Lys Val Phe Val Ala Asn Pro
 145 275 280 285
 146 Asn Lys Thr Gln Pro Ile Leu Asp Ile Leu Leu Lys Asn Gln Thr

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/025,730

DATE: 03/12/2002
TIME: 10:49:40

Input Set : N:\Crf3\RULE60\10025730.raw
Output Set: N:\CRF3\03122002\J025730.raw

147 290 295 300
 148 Lys Leu Ile Glu Phe Leu Ser Lys Phe Gln Asn Asp Arg Thr Glu
 149 305 310 315
 150 Asp Glu Gln Phe Asn Asp Glu Lys Thr Tyr Leu Val Lys Gln Ile
 151 320 325 330
 152 Arg Asn Leu Lys Arg Ala Ala Gln Gln Glu Ala
 153 335 340
 155 <210> SEQ ID NO: 4
 156 <211> LENGTH: 339
 157 <212> TYPE: PRT
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 160 <223> OTHER INFORMATION: g1794137
 161 <400> SEQUENCE: 4
 162 Met Pro Leu Phe Gly Lys Ser Gln Lys Ser Pro Val Glu Leu Val
 163 1 5 10 15
 164 Lys Ser Leu Lys Glu Ala Ile Asn Ala Leu Glu Ala Gly Asp Arg
 165 20 25 30
 166 Lys Val Glu Lys Ala Gln Glu Asp Val Ser Lys Asn Leu Val Ser
 167 35 40 45
 168 Ile Lys Asn Met Leu His Gly Ser Ser Asp Ala Glu Pro Pro Ala
 169 50 55 60
 170 Asp Tyr Val Val Ala Gln Leu Ser Gln Glu Leu Tyr Asn Ser Asn
 171 65 70 75
 172 Leu Leu Leu Leu Ile Gln Asn Leu His Arg Ile Asp Phe Glu
 173 80 85 90
 174 Gly Lys Lys His Val Ala Leu Ile Phe Asn Asn Leu Leu Arg Arg
 175 95 100 105
 176 Gln Ile Gly Thr Arg Ser Pro Thr Val Glu Tyr Ile Cys Thr Lys
 177 110 115 120
 178 Pro Glu Ile Leu Phe Thr Leu Met Ala Gly Tyr Glu Asp Ala His
 179 125 130 135
 180 Pro Glu Ile Ala Leu Asn Ser Gly Thr Met Leu Arg Glu Cys Ala
 181 140 145 150
 182 Arg Tyr Glu Ala Leu Ala Lys Ile Met Leu His Ser Asp Glu Phe
 183 155 160 165
 184 Phe Lys Phe Phe Arg Tyr Val Glu Val Ser Thr Phe Asp Ile Ala
 185 170 175 180
 186 Ser Asp Ala Phe Ser Thr Phe Lys Glu Leu Leu Thr Arg His Lys
 187 185 190 195
 188 Leu Leu Cys Ala Glu Phe Leu Asp Ala Asn Tyr Asp Lys Phe Phe
 189 200 205 210
 190 Ser Gln His Tyr Gln Arg Leu Leu Asn Ser Glu Asn Tyr Val Thr
 191 215 220 225
 192 Arg Arg Gln Ser Leu Lys Leu Leu Gly Glu Leu Leu Leu Asp Arg
 193 230 235 240
 194 His Asn Phe Thr Val Met Thr Arg Tyr Ile Ser Glu Pro Glu Asn
 195 245 250 255
 196 Leu Lys Leu Met Met Asn Met Leu Lys Glu Lys Ser Arg Asn Ile

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/025,730

DATE: 03/12/2002
TIME: 10:49:40

Input Set : N:\Crf3\RULE60\10025730.raw
Output Set: N:\CRF3\03122002\J025730.raw

197	260	265	270
198	Gln Phe Glu Ala Phe His Val Phe Lys Val Phe Val Ala Asn Pro		
199	275	280	285
200	Asn Lys Pro Lys Pro Ile Leu Asp Ile Leu Leu Arg Asn Gln Thr		
201	290	295	300
202	Lys Leu Val Asp Phe Leu Thr Asn Phe His Thr Asp Arg Ser Glu		
203	305	310	315
204	Asp Glu Gln Phe Asn Asp Glu Lys Ala Tyr Leu Ile Lys Gln Ile		
205	320	325	330
206	Lys Glu Leu Lys Pro Leu Pro Glu Ala		
207	335		
209	<210> SEQ ID NO: 5		
210	<211> LENGTH: 377		
211	<212> TYPE: PRT		
212	<213> ORGANISM: Caenorhabditis elegans		
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214	<223> OTHER INFORMATION: g1255838		
215	<400> SEQUENCE: 5		
216	Met Pro Leu Leu Phe Gly Lys Ser His Lys Ser Pro Ala Asp Val		
217	1 5 10 15		
218	Val Lys Thr Leu Arg Glu Val Leu Thr Ile Leu Asp Lys Leu Pro		
219	20 25 30		
220	Pro Pro Lys Leu Asp Lys Asp Gly Asn Ile Gln Ser Asp Lys Lys		
221	35 40 45		
222	Tyr Asp Lys Ala Leu Asp Glu Val Ser Lys Asn Val Ala Met Ile		
223	50 55 60		
224	Lys Ser Phe Ile Tyr Gly Asn Asp Ser Ala Glu Pro Ser Ser Glu		
225	65 70 75		
226	His Val Val Gln Val Ala Gln Leu Ala Gln Glu Val Tyr Asn Ala		
227	80 85 90		
228	Asn Ile Leu Pro Met Leu Ile Lys Met Leu Pro Lys Phe Glu Phe		
229	95 100 105		
230	Glu Cys Lys Lys Asp Val Gly Gln Ile Phe Asn Asn Leu Leu Arg		
231	110 115 120		
232	Arg Gln Ile Gly Thr Arg Ser Pro Thr Val Glu Tyr Leu Gly Ala		
233	125 130 135		
234	Arg Pro Glu Ile Leu Ile Gln Leu Val Gln Gly Tyr Ser Val Pro		
235	140 145 150		
236	Asp Ile Ala Leu Thr Cys Gly Leu Met Leu Arg Glu Ser Ile Arg		
237	155 160 165		
238	His Asp His Leu Ala Lys Ile Ile Leu Tyr Ser Asp Val Phe Tyr		
239	170 175 180		
240	Thr Phe Phe Leu Tyr Val Gln Ser Glu Val Phe Asp Ile Ser Ser		
241	185 190 195		
242	Asp Ala Phe Ser Thr Phe Lys Glu Leu Thr Thr Arg His Lys Ala		
243	200 205 210		
244	Ile Ile Ala Glu Phe Leu Asp Ser Asn Tyr Asp Thr Phe Phe Ala		
245	215 220 225		
246	Gln Tyr Gln Asn Leu Leu Asn Ser Lys Asn Tyr Val Thr Arg Arg		

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/025,730

DATE: 03/12/2002
TIME: 10:49:41

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Output Set: N:\CRF3\03122002\J025730.raw

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L:105 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:159 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:213 M:256 W: Invalid Numeric Header Field, <220> has non-blank data